

March 26, 2003

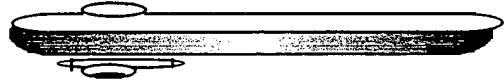
Wireless/CORDLESS STETHOSCOPE

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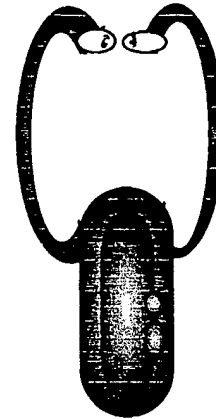
TOP VIEW



SIDE VIEW



THIS IS THE HANDHELD PORTION
TO BE USED OUTSIDE OF THE
HAZMAT SUIT.



THE INTERNAL
FM RECEIVER WORN
IN POCKET OR AROUND
THE NECK

In the process of wearing a self-contained airtight HAZMAT suit, physicians and nurses are limited in their ability to use a stethoscope. Sliding a stethoscope from beneath the hood of a HAZMAT suit would compromise the integrity of the suit.

This device would enable the wearer of the suit to perform those tasks using a stethoscope that are necessary in an emergency hazardous materials situation.

The portion of the device used to sample the chest and heart sounds would consist of a stethoscope bell and diaphragm connected to a specialized microphone that operates in the appropriate frequency response for this listening task. This in turn would be linked to an amplifier and FM transmitter. The sounds detected would be transmitted to an FM receiver inside the HAZMAT suit. Ear pieces would enable the operator to sample the sounds. The receiver could be worn on a cord around the neck or in a pocket if available.

Because of the quieting effect of an FM signal, any interference of necessary audible communication with associates would not occur when the audio from the handheld unit is discontinued.